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Trp Gln Lys Lys Leu Gly Gln Met Thr Phe Ser Thr Ser Leu Asn Val
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Ala Thr Ile Lys Val Leu Asp Leu His Asp Asn Gln Leu Thr Ala Leu
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Ser Val Cys Leu His Gly Asn Gln Lys Gln Tyr Val Tyr Glu Pro Glu
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Ser Gln Arg Leu Val Gly Gln Lys Thr Asp Arg Gln Thr Ile Thr Val
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 770 775 780
 Gly Ile Leu Ala Glu Leu Glu Ala Lys Ser Glu Thr Lys Gln Glu Asn
 785 790 795 800
 Tyr Trp Leu Ile Gln Tyr Gln Arg Leu Leu Asn Gln Lys Pro Leu Ser
 805 810 815
 Leu Lys Leu Gln Glu Glu Gly Met Glu Arg Gln Leu Val Ala Leu Leu
 820 825 830
 Val Glu Leu Ser Ala Glu His Tyr Leu Pro Leu Phe Ala His His Arg

835

840

845

Ile Thr Leu Asp Met Leu Ser Arg Met Gly Pro Gly Asp Leu Ala Lys
850 855 860

Val Gly Val Ser Glu Ala Gly Leu Gln His Glu Ile Leu Arg Arg Ala
865 870 875 880

Arg Asp Leu Leu Asp Val Ala Arg Val Gln Pro Glu Leu Lys Pro Pro
885 890 895

Lys Asn Glu Val Phe Gly Val Ser Glu Pro Pro Thr Ala Pro Gln Glu
900 905 910

Leu Pro Glu Ser Val Arg Pro Ser Ala Pro Pro Ala Glu Leu Asp Val
915 920 925

Pro Thr Ser Glu Cys Val Val Cys Leu Glu Arg Glu Ala Gln Met Val
930 935 940

Phe Leu Thr Cys Gly His Val Cys Cys Cys Gln Gln Cys Cys Gln Pro
945 950 955 960

Leu Arg Thr Cys Pro Leu Cys Arg Gln Glu Ile Ser Gln Arg Leu Arg
965 970 975

Ile Tyr His Ser Ser
980

<210> 7
<211> 234
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Active portion of human Tal

<400> 7

Leu Lys Arg Lys Ser Leu Asp Thr Glu Ser Leu Gln Glu Met Ile Ser
1 5 10 15

Glu Gln Arg Trp Ala Leu Ser Ser Leu Leu Gln Gln Leu Leu Lys Glu
20 25 30

Lys Gln Gln Arg Glu Glu Glu Leu Arg Glu Ile Leu Thr Glu Leu Glu
35 40 45

Ala Lys Ser Glu Thr Arg Gln Glu Asn Tyr Trp Leu Ile Gln Tyr Gln
50 55 60

Arg Leu Leu Asn Gln Lys Pro Leu Ser Leu Lys Leu Gln Glu Glu Gly
65 70 75 80

Met Glu Arg Gln Leu Val Ala Leu Leu Glu Glu Leu Ser Ala Glu His
85 90 95

Tyr Leu Pro Ile Phe Ala His His Arg Leu Ser Leu Asp Leu Leu Ser
 100 105 110

Gln Met Ser Pro Gly Asp Leu Ala Lys Val Gly Val Ser Glu Ala Gly
 115 120 125

Leu Gln His Glu Ile Leu Arg Arg Val Gln Glu Leu Leu Asp Ala Ala
 130 135 140

Arg Ile Gln Pro Glu Leu Lys Pro Pro Met Gly Glu Val Val Thr Pro
 145 150 155 160

Thr Ala Pro Gln Glu Pro Pro Glu Ser Val Arg Pro Ser Ala Pro Pro
 165 170 175

Ala Glu Leu Glu Val Gln Ala Ser Glu Cys Val Val Cys Leu Glu Arg
 180 185 190

Glu Ala Gln Met Ile Phe Leu Asn Cys Gly His Val Cys Cys Cys Gln
 195 200 205

Gln Cys Cys Gln Pro Leu Arg Thr Cys Pro Leu Cys Arg Gln Asp Ile
 210 215 220

Ala Gln Arg Leu Arg Ile Tyr His Ser Ser
 225 230

<210> 8
 <211> 77
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 <213> Homo sapiens

<220>
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 <223> Active portion of human Tal

<400> 8

Val Thr Pro Thr Ala Pro Gln Glu Pro Pro Glu Ser Val Arg Pro Ser
 1 5 10 15

Ala Pro Pro Ala Glu Leu Glu Val Gln Ala Ser Glu Cys Val Val Cys
 20 25 30

Leu Glu Arg Glu Ala Gln Met Ile Phe Leu Asn Cys Gly His Val Cys
 35 40 45

Cys Cys Gln Gln Cys Cys Gln Pro Leu Arg Thr Cys Pro Leu Cys Arg
 50 55 60

Gln Asp Ile Ala Gln Arg Leu Arg Ile Tyr His Ser Ser
 65 70 75

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<220>
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<400> 9
 ggaattcgtc atggcggtgt cggag 25

<210> 10
 <211> 29
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Single strand DNA oligonucleotide

<400> 10
 cctcgagtca gtagaggtca ctgagaccg 29

<210> 11
 <211> 29
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Single strand DNA oligonucleotide

<400> 11
 ggaattcggg cttattcagg tcatgattg 29

<210> 12
 <211> 25
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Single strand DNA oligonucleotide

<400> 12
 ccgggacatt cccacagctc cctta 25

<210> 13
 <211> 35
 <212> DNA
 <213> Artificial sequence

<220>
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<400> 13
 aaactgcagc cagagcagaa ctgagttctt catcc 35

<210> 14
 <211> 27
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Single strand DNA oligonucleotide

<400> 14
 aaactgcagg gcacgatcca tttcctc 27

<210> 15
 <211> 19
 <212> DNA
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<220>
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<400> 15
 cctgcagagc tggaggtgc 19

<210> 16
 <211> 20
 <212> DNA
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 <220>
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 <400> 16
 gacgacctca cccattggtg 20
 .
 <210> 17
 <211> 24
 <212> DNA
 <213> Artificial sequence
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 <400> 17
 gtatgtatta cctctataag gcac 24
 .
 <210> 18
 <211> 23
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 <400> 18
 gggcttattc aggtcatgat tgt 23
 .
 <210> 19
 <211> 23
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 .
 <400> 19
 cacaatcatg acctgaataa gcc 23
 .
 <210> 20
 <211> 20
 <212> DNA
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 <400> 20
 gaggacacca tccgagcctc 20
 .
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 <211> 20
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 .
 <210> 22

<211> 22
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 <400> 22
 cattcccaca gtccttat ac 22

<210> 23
 <211> 22
 <212> DNA
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 <220>
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 <400> 23
 gtataaggga gctgtgggaa tg 22

<210> 24
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 <400> 24
 ggaggtggag actacaagga c 21

<210> 25
 <211> 24
 <212> DNA
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 <220>
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 <400> 25
 ccgggatcca tggcggtgtc ggag 24

<210> 26
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 <400> 26
 atagtttagc ggccgctagt cacttgatcat cgtcgtc 37

<210> 27
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 <212> DNA
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 <400> 27
 cccaagcttg gaaggatgcc gctctt 26

<210> 28
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<400> 28
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 g 61

<210> 29
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 <212> DNA
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<400> 29
 ctcttcttgc agcttcaagg 20

<210> 30
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 <212> DNA
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<220>
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<400> 30
 gccaggatcc agccagag 18

<210> 31
 <211> 29
 <212> DNA
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<400> 31
 cctcaactgt ggcgccgtct gctgctgcc 29

<210> 32
 <211> 29
 <212> DNA
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<400> 32
 ggcagcagca gacggcgcca cagttgagg 29

<210> 33
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<220>
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<400> 33
 cctgcagagc tggaggtgc 19

<210> 34
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 <212> DNA
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<220>
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 <400> 34
 gacgacctca cccattggtg 20

 <210> 35
 <211> 19
 <212> DNA
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 <220>
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 <400> 35
 gaggagctgt cggctgagc 19

 <210> 36
 <211> 27
 <212> DNA
 <213> Artificial sequence

 <220>
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 <400> 36
 taacttaatc tggctcctga tctgccg 27

 <210> 37
 <211> 19
 <212> PRT
 <213> Homo sapiens

 <220>
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 <223> Active portion of human Tal

 <400> 37
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 1 5 10 15

 Ala Pro Pro

 <210> 38
 <211> 700
 <212> DNA
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 <400> 38
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 cctcagctcc ctgctccagc agctgctcaa agagaagcag cagcgagagg aagagctccg 120
 ggaaatcctg acggagttag aagccaaaag tgaaaccagg caggaaaatt actggctgat 180
 tcagtatcaa cggtttttga accagaagcc cttgtccttg aagctgcaag aagaggggat 240
 ggagcgccag ctggtggccc tcctggagga gctgtcggct gagcactacc tgcccatctt 300
 tgcgcaccac cgcctctcac tggacctgct gagccaaatg agcccagggg acctggccaa 360
 ggtgggcgtc tcagaagctg gcctgcagca cgagatcctc cggagagtcc aggaactgct 420

ggatgcagcc aggatccagc cagagctgaa accaccaatg ggtgaggtcg tcacccctac 480
 ggccccccag gaggctcctg agtctgtgag gccatccgct cccctgcag agctggaggt 540
 gcaggcctca gagtgtgtcg tgtgcctgga acgggaggcc cagatgatct tcctcaactg 600
 tggccacgtc tgctgtgcc agcagtgtg ccagccactg cgcacctgcc cgctgtgccg 660
 ccaggacatc gccagcgcc tccgcatcta ccacagcagc 700

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<220>
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 <223> Active portion of human Tal

<400> 39
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 gagctggagg tgcaggcctc agagtgtgtc gtgtgcctgg aacgggaggc ccagatgatc 120
 ttctcaact gtggccacgt ctgtgtgtgc cagcagtgtc gccagccact gcgcacctgc 180
 ccgctgtgcc gccaggacat cggccagcgc ctccgcatct accacagcag c 231

<210> 40
 <211> 55
 <212> DNA
 <213> Homo sapiens

<220>
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<210> 41
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<220>
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<400> 41
 ccuccagucu ucucucguct t 21

<210> 42
 <211> 21
 <212> DNA
 <213> Artificial sequence

<220>
 <223> SiRNA synthetic oligonucleotide

<400> 42
 ttggagguca gaagagagca g 21

<210> 43
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 <212> DNA
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<220>
 <223> SiRNA synthetic oligonucleotide

 <400> 43
 guccaaaggu uccggagact t 21

<210> 44
 <211> 21
 <212> DNA
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 <220>
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 <400> 44
 ttcagguuuc caaggccucu g 21

<210> 45
 <211> 21
 <212> DNA
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 <220>
 <223> SiRNA synthetic oligonucleotide

 <400> 45
 ucaccucacu ucccgcuut t 21

<210> 46
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 <213> Artificial sequence

 <220>
 <223> SiRNA synthetic oligonucleotide

 <400> 46
 ttaguggagu gaagggacga a 21

<210> 47
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 <400> 47
 ugcugacuga gacgugaat t 21

<210> 48
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 <400> 48
 uuacagcucu cagucagcat t 21

<210> 49
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<400> 49
aaugucgaga gucagucgut t

21

<210> 50
<211> 21
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<220>
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<400> 50
acgacugacu cugacauut t

21

<210> 51
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<220>
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<400> 51

Glu Val Val Thr Pro Thr Ala Pro Gln Glu Pro Pro Glu Ser Val Arg
1 5 10 15

Pro Ser Ala Pro Pro Ala Glu
20

<210> 52
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 52
aagaattcag aggtcgtcac ccctacgg

28

<210> 53
<211> 25
<212> DNA
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<220>
<223> Single strand DNA oligonucleotide

<400> 53
aaggatccct ctgcaggggg agcgg

25